

Gauri Toshniwal

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EDUCATION

National Institute of Technology, Tiruchirappalli <i>Masters of Technology - Data Analytics (CGPA: 9.58/10) [Rank 1]</i> Coursework: Deep Learning, NLP, Machine Learning, Federated Learning, Mathematics (Linear Algebra, Probability)	Tamil Nadu, India 08/2023 - 06/2025
Government College of Engineering, Nagpur <i>Bachelor of Engineering - Computer Science and Engineering (CGPA: 9.42/10)</i> Coursework: Operating Systems, Data Structures & Algorithms, Artificial Intelligence, Databases, Discrete Mathematics, Compilers	Maharashtra, India 06/2021

RESEARCH

- **Forget Less, Solve More: Sequential Fine-Tuning with Adapter Shrinking for Math Word Problems** 07/2025
Explores the impact of difficulty-based ordering, sequential fine-tuning, and progressive parameter shrinking in LLMs.
(Master's Thesis, Accepted at 2nd AI for Math Workshop@ ICML 2025) ([Paper](#)) [Llama, Qwen]
- **Contextual QA for Financial Causality Detection Combining Extractive and Generative Models** 12/2024
Secured **3rd Rank** in the English Subtask at FNP Workshop FinCausal 2025, COLING, with a SAS score of 96.74% and EM score of 70.14% using a hybrid RoBERTa-base and Gemma2-9B model. ([Paper](#))
- **DECOR 2022@ICDE, 38th IEEE International Conference on Data Engineering** [Paper](#) 05/2022
Won Best Student Paper Award for “Object Detection in Indian Food Platters using Transfer Learning with YOLOv4”

WORK EXPERIENCE

Astreya AI/ML Engineer	Remote, India 07/2025 - Current
AI/ML Intern	01/2025 - 06/2025
<ul style="list-style-type: none">• Ticket Volume Forecasting: Developed a ticket volume forecasting system on GCP by fetching data from BigQuery, orchestrating workflows with Airflow, and running Python-based models. Classified time series into lumpy, erratic, smooth, and intermittent categories, applying Croston's method and its variants for sparse demand, exponential smoothing, and AutoARIMA for smooth series. Integrated forecasts into capacity management tools, enabling delivery managers to make data-driven decisions for workforce planning and resource allocation.	

Findability Sciences Data Scientist (Onsite - Hindustan Times Digital)	Remote, India 05/2021 - 08/2023
<ul style="list-style-type: none">• Demographics (Gender, Age, Interest) Prediction: Built user-level classifiers for gender, age, and interest prediction using grammatical and entity-based features from news headlines, achieving an F1 score of 0.65 for 2M users daily. Eliminated reliance on third-party data, saving ₹500,000/month. Migrated feature engineering and model inference pipelines to PySpark for scalability.• Subscription Churn Prediction and Retention Feed: Developed XGBoost models (d-60, d-30, d-15) to track churn probability shifts and used SHAP for interpretability. Refactored backend logic and exposed model predictions via a new API endpoint in the Flask server, powering a personalized retention feed that improved user engagement.	

ACADEMIC ACHIEVEMENTS

- **Awarded Reliance Foundation Postgraduate Scholarship for the year 2023-24** 06/2024
Received by top 100 students nationwide for exceptional academic achievement and potential in technology and engineering
- **ACM Summer School on Responsible and Safe AI Certificate** 06/2024
Selected and Attended summer school hosted by IIT Madras
- **AI Safety Fundamentals - Bluedot Impact Certificate** 03/2024 - 06/2024
Selected for a 12-week online course, covering a range of technical AI alignment research agendas

SKILLS

Languages and Frameworks: Python, C++, C; Pandas, Scikit-learn, PyTorch, Numpy, Flask, Pyspark
Tools and Platforms: Git, HuggingFace, SQL, MongoDB, Redis, Looker Studio, Docker, BigQueryML, GCP, Vertex AI
Areas of Interest: NLP, Deep Learning, AI Safety